

PUBLIC NOTICE

PERMIT APPLICATION: NRS 07.229

APPLICANT: Hallsdale-Powell Utility District
P.O. Box 71449
Knoxville, TN 37938
865-922-7547

LOCATION: Beaver Creek and Hines Branch, west of Highway 33 (US 441), Knoxville, Knox County 36.0714 °N, -83.9461 °W

WATERSHED DESCRIPTION: Hines Branch and Beaver Creek are located in the Lower Clinch watershed (HUC 06010207). The stream segments are listed as not supporting their fish and aquatic life and recreation designated use. Hines Branch is listed as impaired by *E.coli* and substrate alterations. Beaver Creek is listed as impaired by *E.coli*, substrate alterations and sedimentation. Beaver Creek and Hines Branch in the project area are from 5 to 15 feet wide, 1 to 2 feet deep with a clay loam, cobble/gravel, a rock substrate. The riparian area is mixed hardwood species, or only herbaceous plants.

Four wetlands were identified in the project area. The wetlands are a mix of palustrine forested (wetland A, B, and C) and palustrine emergent (wetland D). The forested wetlands are dominated by green ash, black willow, box elder, Chinese privet, elderberry, hazel alder. The emergent wetlands are dominated by soft rush, Canada rush, jewel weed, cattails, silky dogwood and arrowhead.

The surrounding watershed has increasing residential and commercial development. Hines Branch was determined to be a Tier I waterbody.

Representative color photos of the existing stream and wetlands can be views on the Internet version of this notice at <http://www.state.tn.us/environment/wpc/ppo/arap>.

PROJECT DESCRIPTION: The applicant proposes to replace approximately 8,154 linear feet of gravity sewer line. The replacement is to help bring the sewer system into NPDES compliance under a Corrective Action Plan issued by the Department of Environment and Conservation. The proposed line will cross Beaver Creek once, Hines Branch six times, cross two wetlands, and one unnamed tributary. Some of the proposed line parallels the existing line, however over 2,000 feet of the proposed alignment deviates from the existing line to closely parallel the creek.

Stream Crossing 1: Beaver Creek 18" PVC Directional Bore 36.0713 °N, -83.9464 °W

Stream Crossing 2: Hines Branch 8" PVC, 20' cap 36.0691 °N, -83.9435 °W

Stream Crossing 3: Hines Branch 8" PVC 30' cap 36.0828 °N, -83.9421 °W

Stream Crossing 4: Hines Branch 18" PVC 15' cap 36.0675 °N, -83.9402 °W

Stream Crossing 5: Hines Branch 18" PVC 15' cap 36.0671 °N, -83.9369 °W

Wetland 3: 3220 sq. ft disturbed 18" PVC 36.0672 °N, -83.9359 °W

Stream Crossing 6: Hines Branch 18" PVC 20' cap 36.0672 °N, -83.9301 °W

Wetland 4: 665 sq. ft disturbed for 18" PVC 18" PVC 36.0671 °N, -83.9354 °W

Stream Crossing 7: Hines Branch 18" PVC 70" cap 36.0663 °N, -83.9268 °W

There is an additional 18" PVC crossing proposed below a spring run at 36.0670 °N, -83.9342 °W

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity may result in degradation to water quality, due to the installation of a gravity line parallel and in close proximity to Hines Branch.

USGS TOPOGRAPHIC QUADRANGLE: Fountain City 146 SW

PERMIT COORDINATOR: Juliana W. Kyzar

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying. The department's address is:

Tennessee Department of Environment & Conservation
Division of Water Pollution Control, Natural Resources Section
7th Floor L & C Annex
401 Church Street
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.

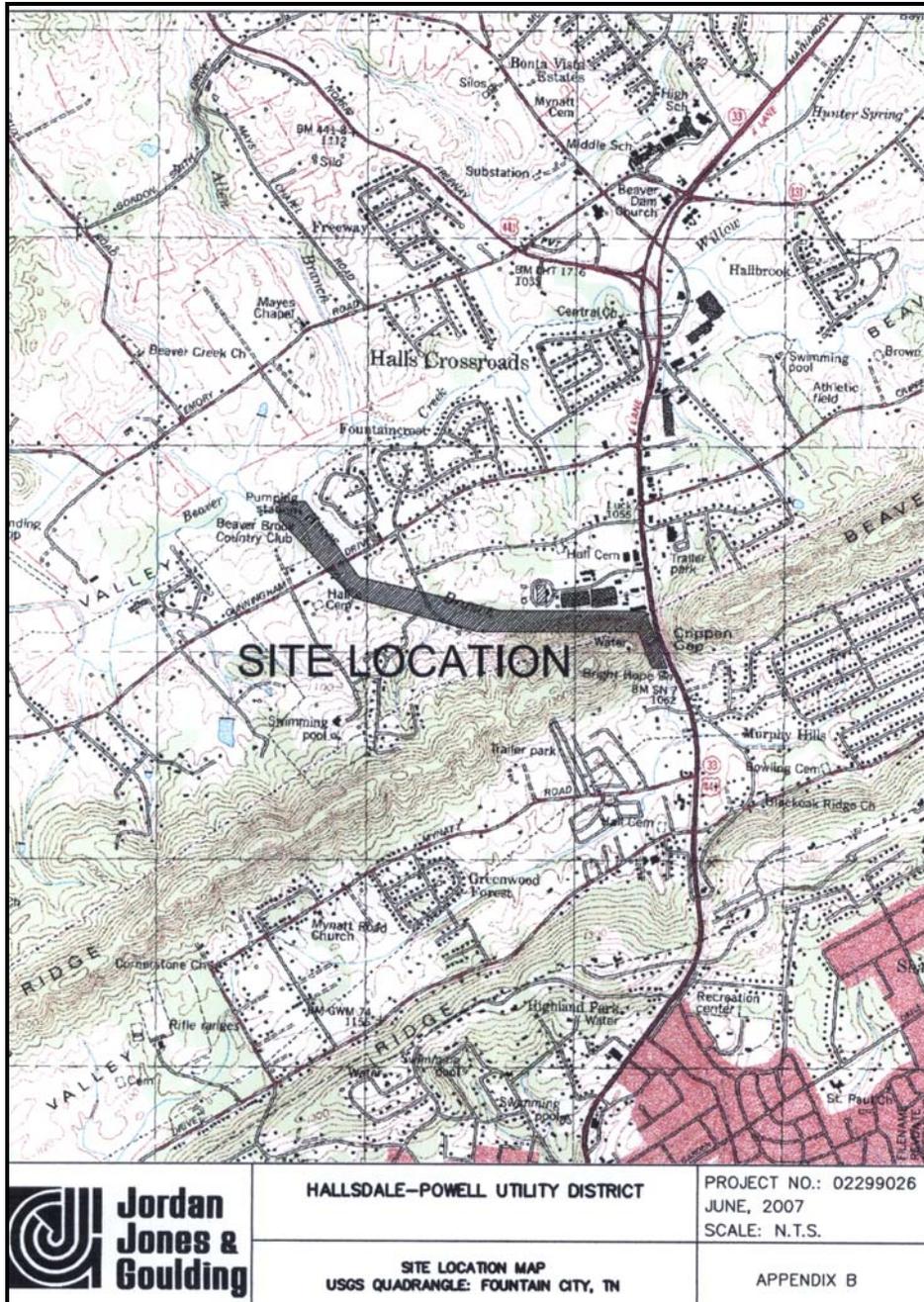


Figure 1: topographic map with sewer alignment



Figure 3: Aerial photo with alignment and crossings, part 2 (eastern half)



Photo 1: View of wetland 3 photo by JJG



Photo 2: Stream Crossing 2 line HB station 1+50photo by JJG



Photo 3: Stream crossing 3. Line HB-5, Station 0+ 25 photo by JJG



Photo 4: Stream crossing 7, Line HB station 71+60

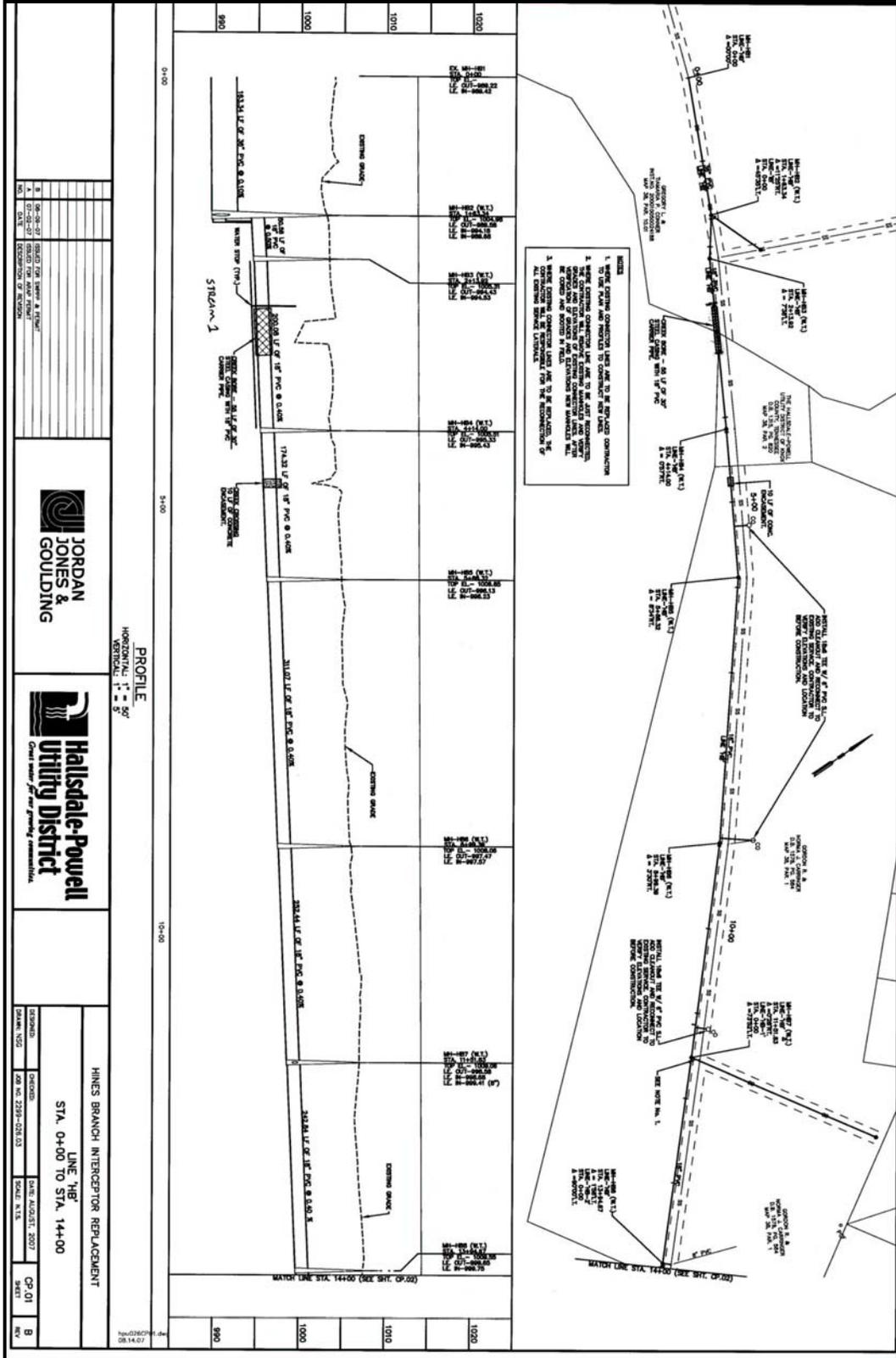


Figure 4: Plan sheet 1

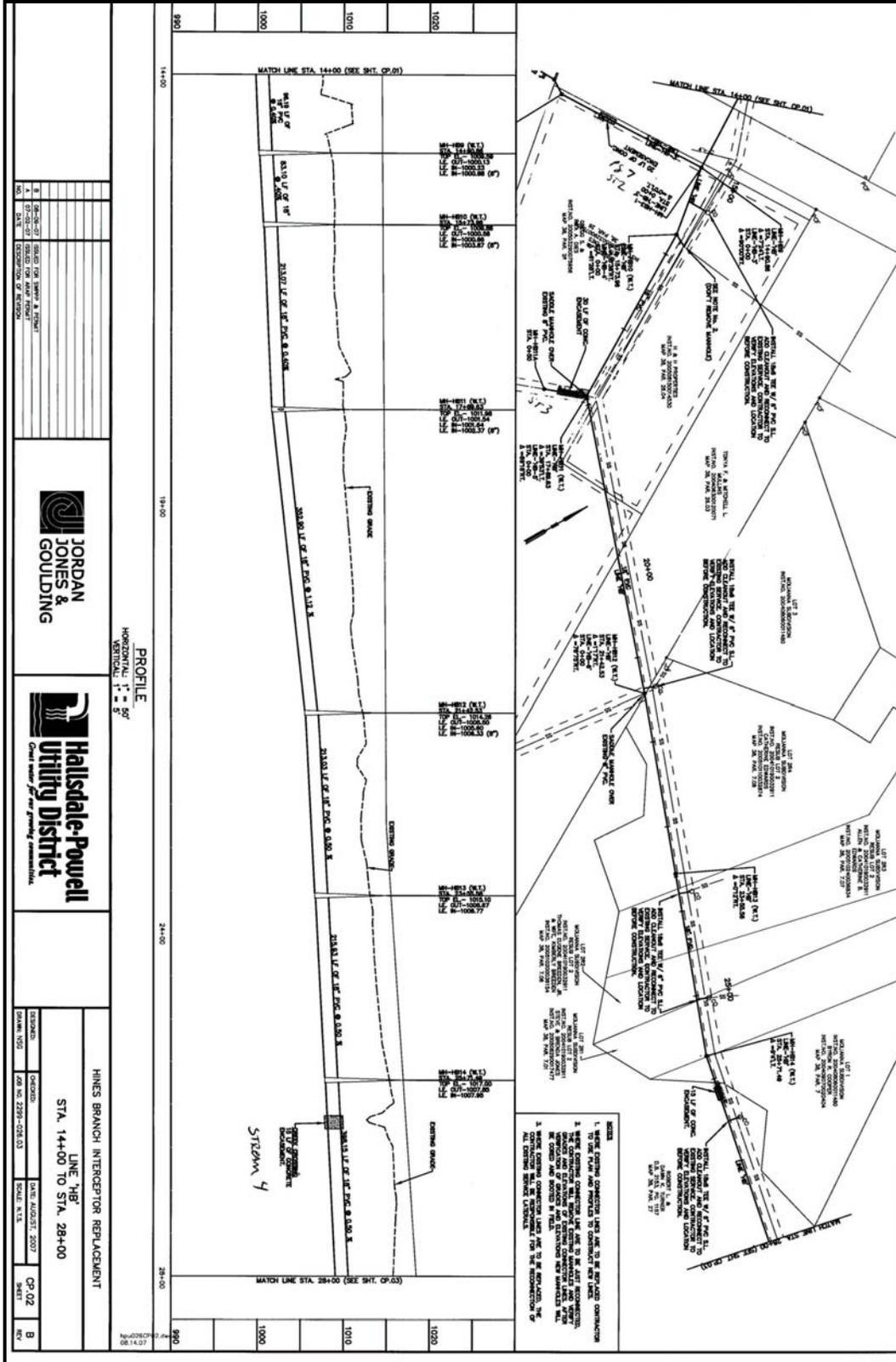


Figure 5: Plan sheet 2

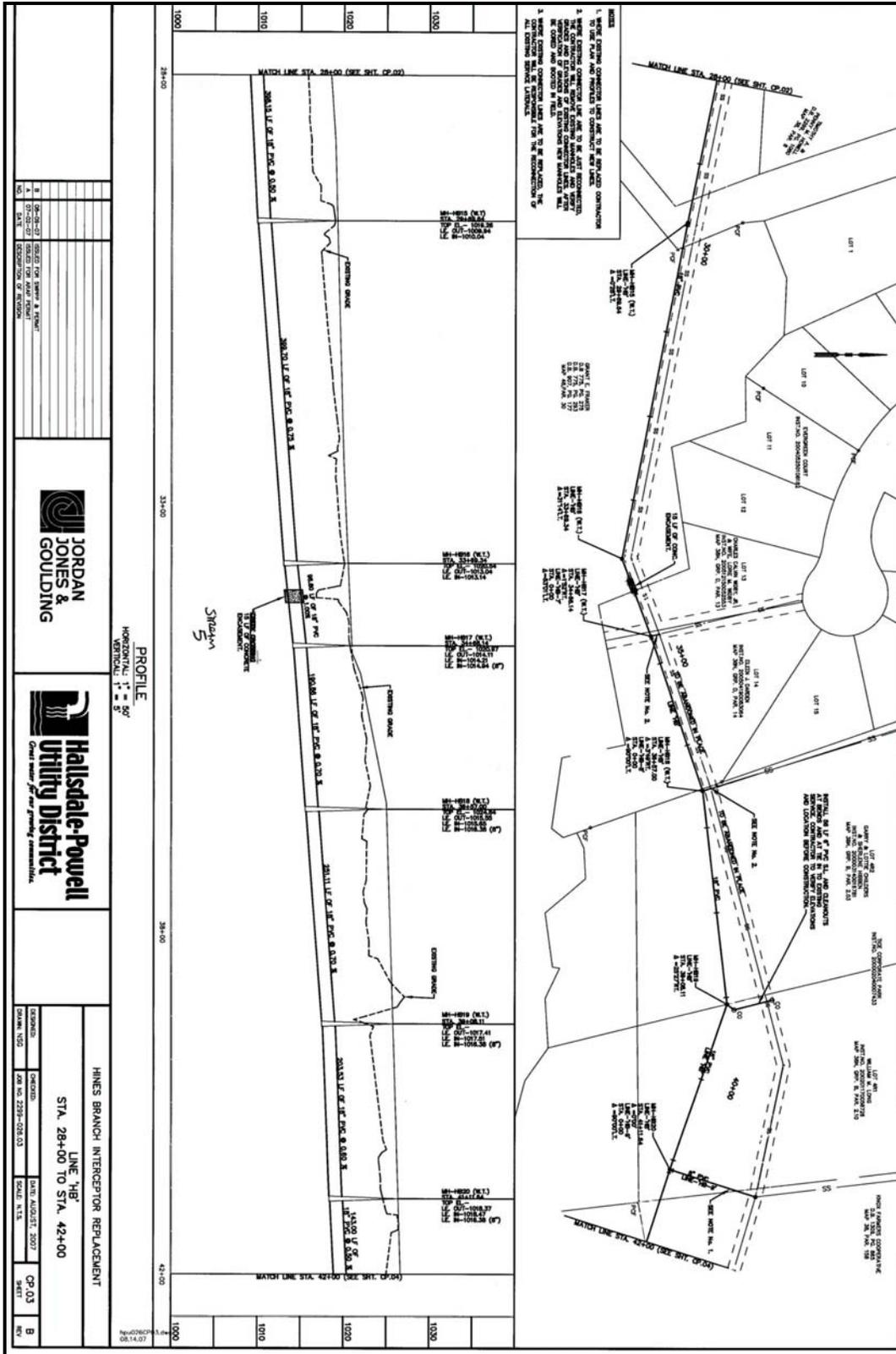


Figure 6: Plan sheet 3

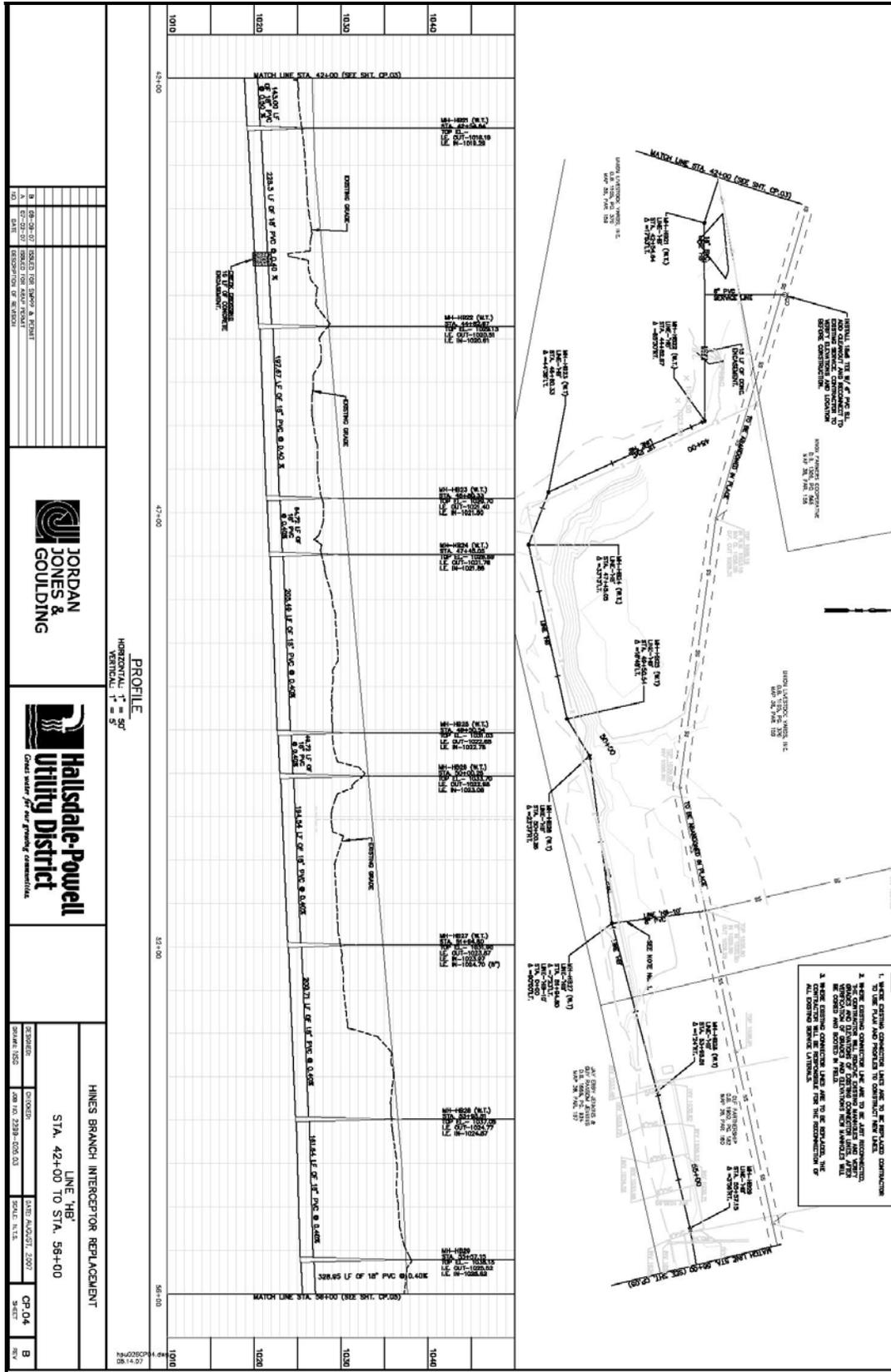


Figure 7: Plan sheet 4

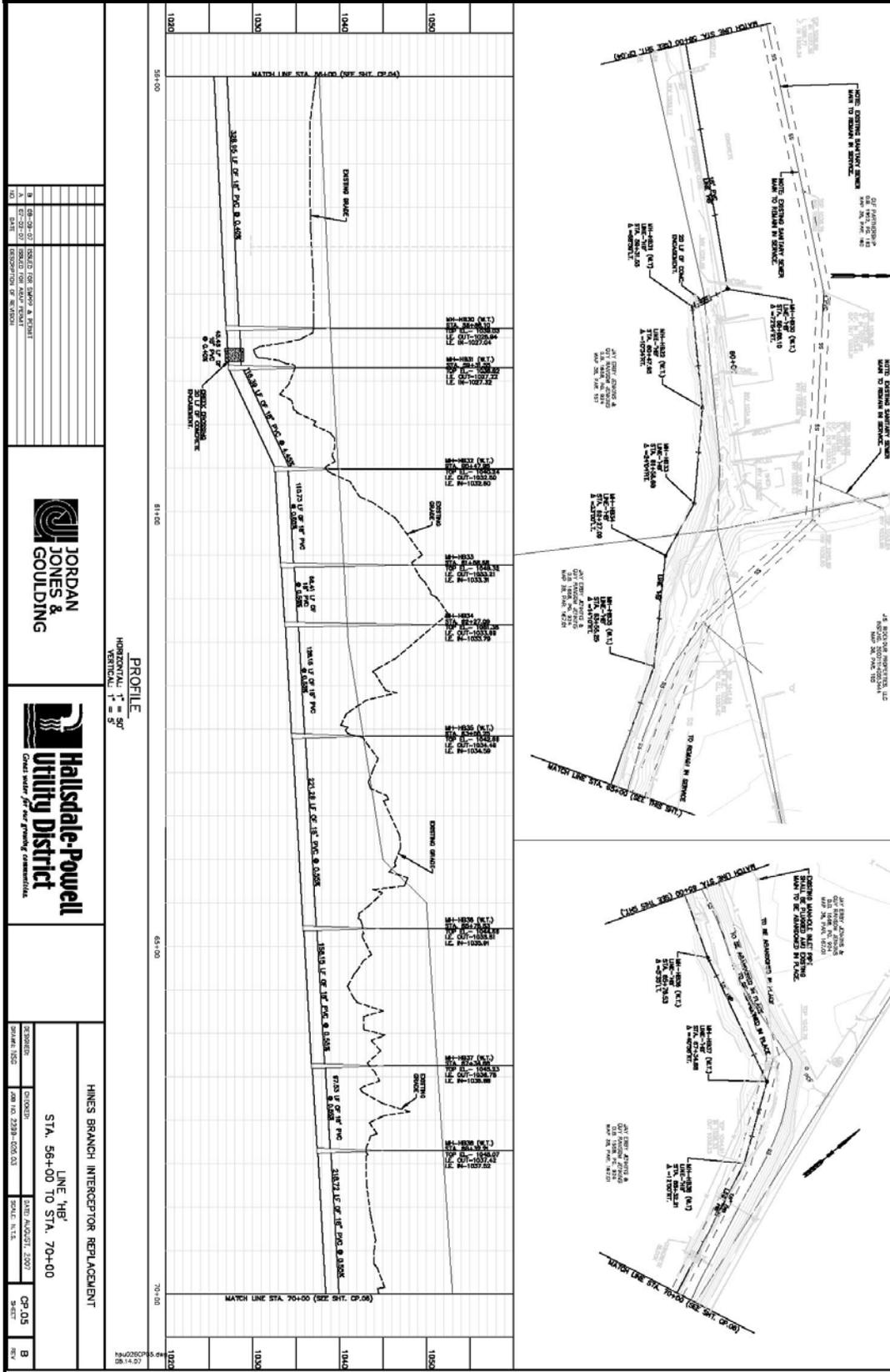


Figure 8: Plan sheet 5

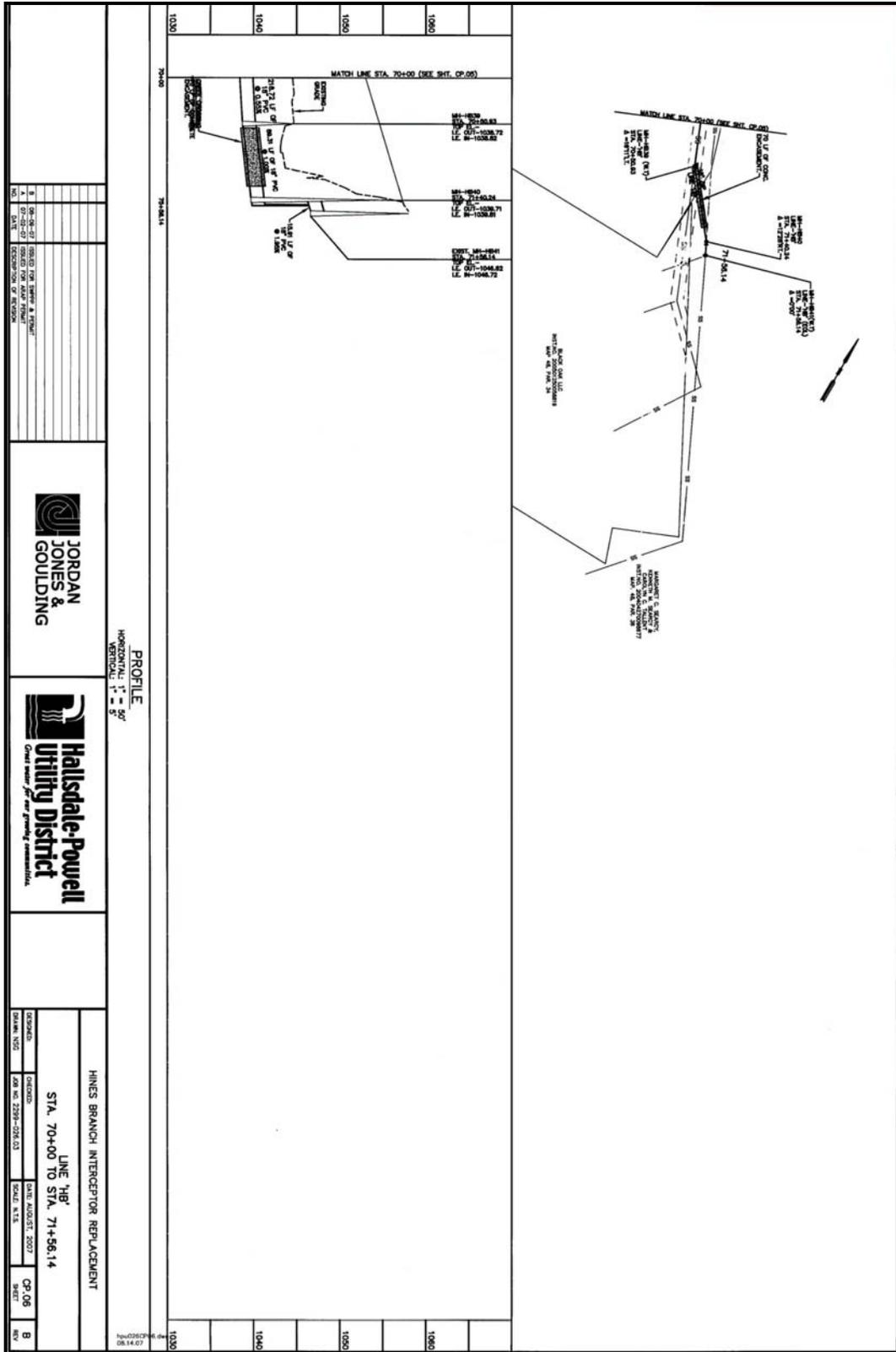


Figure 9: Plan sheet 6

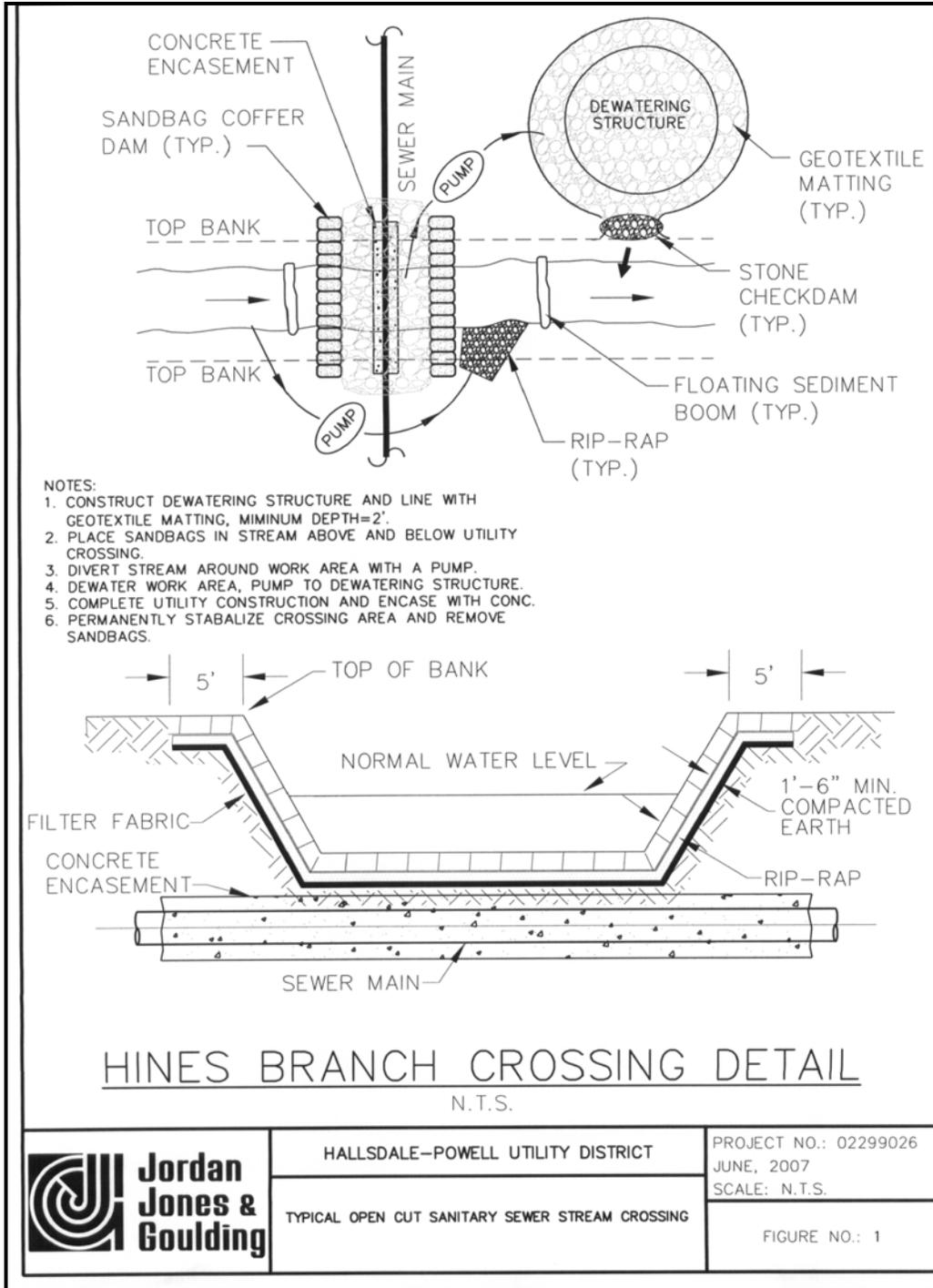


Figure 12: Basic open cut crossing detail

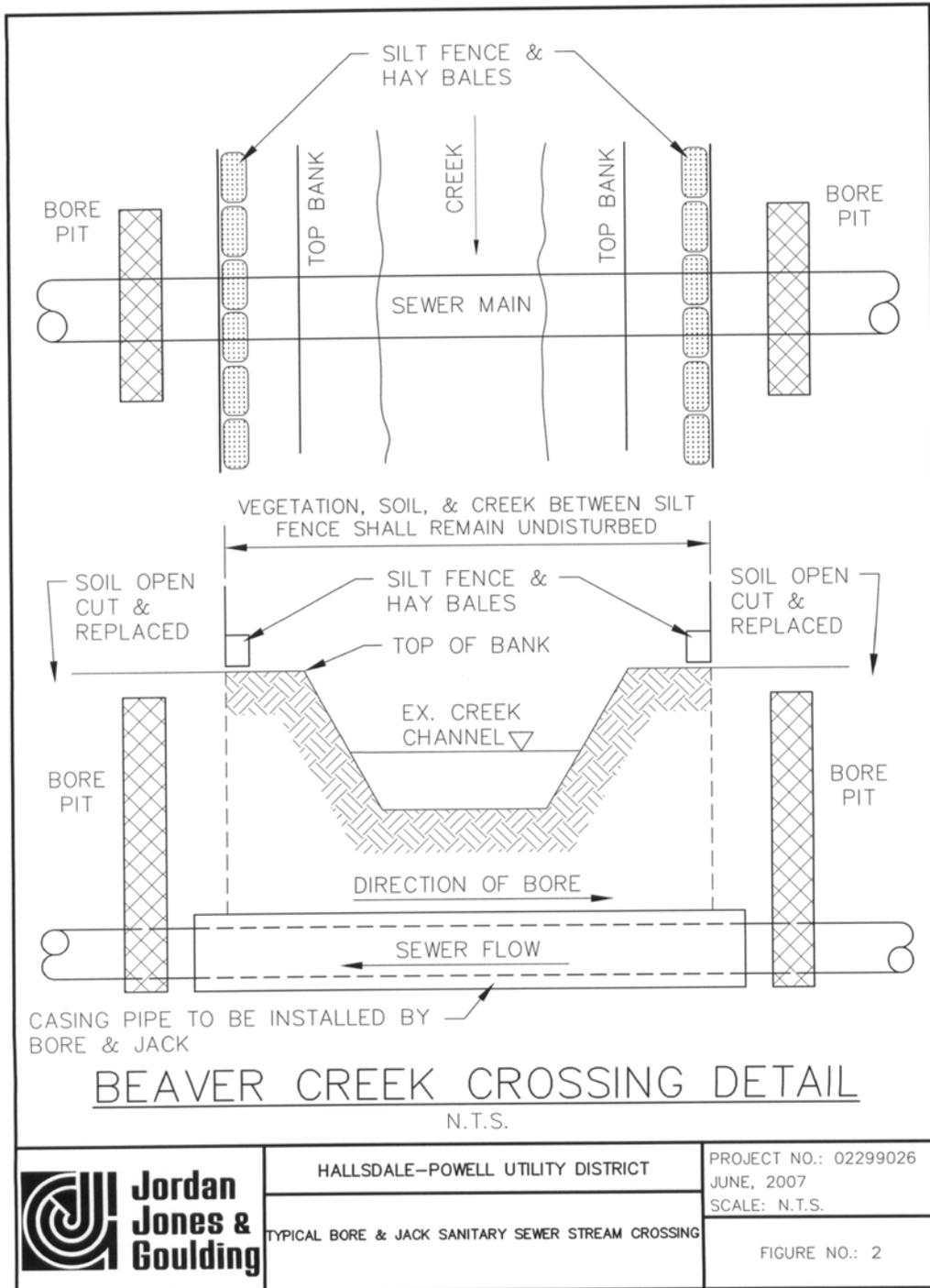


Figure 13: Directional bore crossings method.

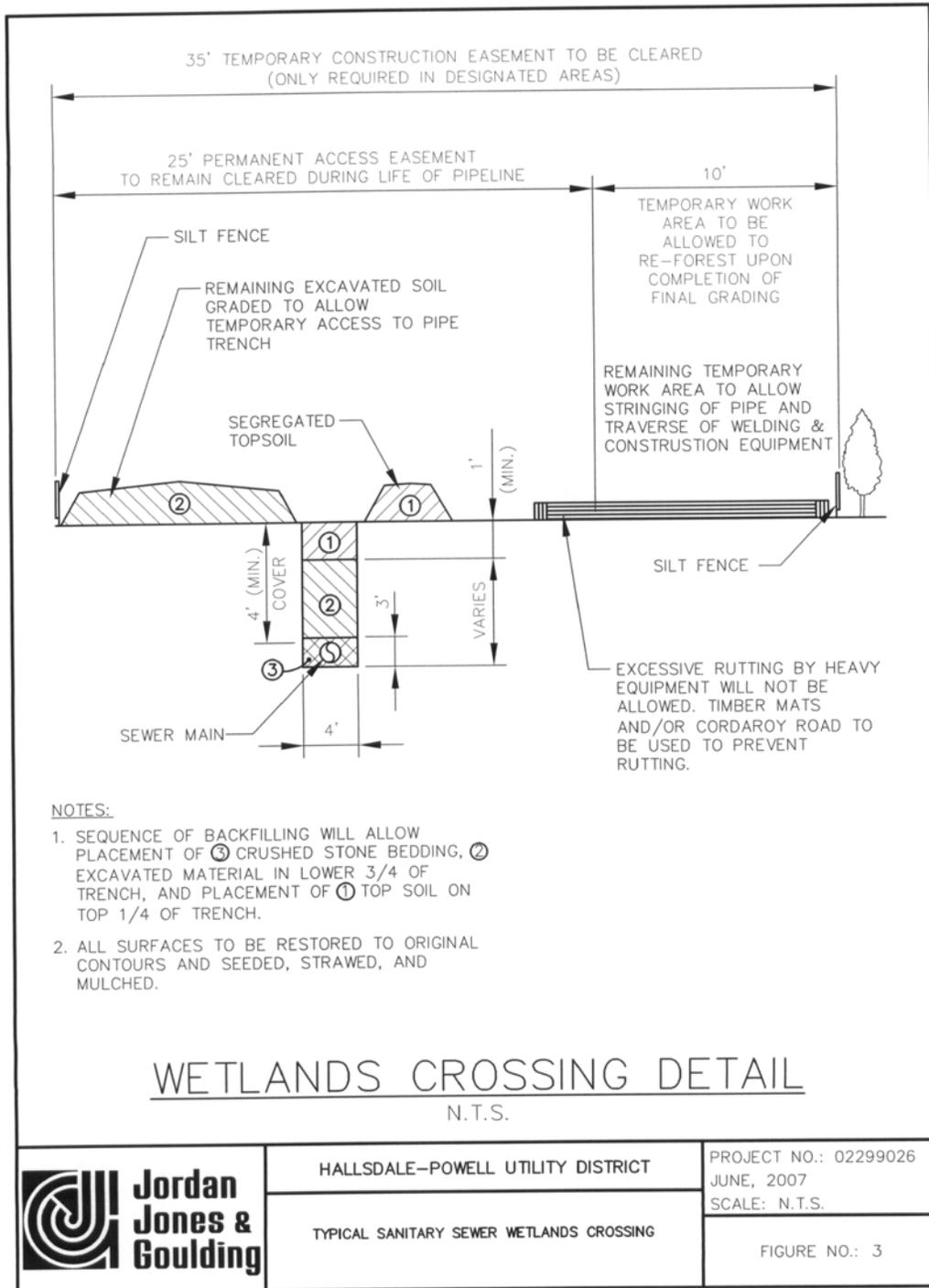
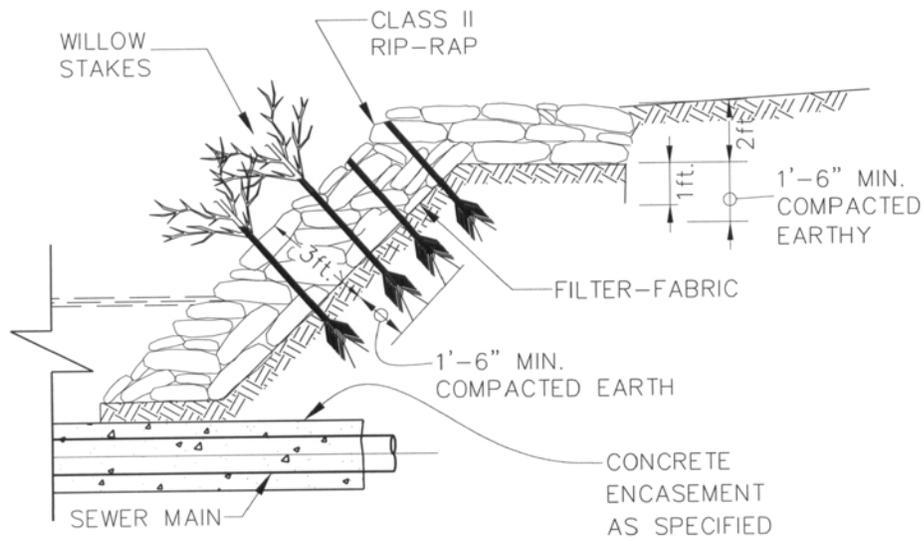


Figure 14: Wetland crossing method

NOTES:

1. ROOTED/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE AT THE TIME OF INSTALLATION.
2. ALL RIP-RAP SHALL BE CLASS II (NATIONAL STONE ASSOCIATION NO. R5) AND SHALL CONSIST OF WELL GRADED STONES WEIGHING FROM 10 TO 200 POUNDS EACH, WITH AT LEAST 50 PERCENT WEIGHING OVER 80 POUNDS EACH. NOT MORE THAN 10 PERCENT SHALL WEIGH LESS THAN 10 POUNDS EACH AND NOT MORE THAN 10 PERCENT SHALL WEIGH MORE THAN 200 POUNDS EACH.
3. INSTALL LIVE WILLOW STAKES (SALIX NIGRA BLACK WILLOW) BETWEEN ROCK PLACED ALONG STREAMBANK. SPACING SHALL BE 2 FT. X 2 FT. ROCK NEEDS TO BE LOOSELY DUMPED OR HAND PLACED AND NO THICKER THAN 2 FEET.



**STREAM BANK STABILIZATION DETAIL
(USING PERMANENT VEGETATION)**

N.T.S.

	HALLSDALE-POWELL UTILITY DISTRICT	PROJECT NO.: 02299026 JUNE, 2007 SCALE: N.T.S.
	TYPICAL STREAM BANK STABILIZATION	FIGURE NO.: 4

Figure 15 : Stream bank stabilization detail